THE AMERICAN JOURNAL OF PSYCHOLOGY

EDITED BY

KARL M. DALLENBACH
UNIVERSITY OF TEXAS

AND

M. E. BITTERMAN
BRYN MAWR COLLEGE

E. B. NEWMAN
HARVARD UNIVERSITY

WITH THE COÖPERATION OF

E. G. BORING, Harvard University; W. K. ESTES, Stanford University; J. P. GUILFORD, University of Southern California; HARRY HELSON, Kansas State University; E. R. HILGARD, Stanford University; FRANCIS J. IRWIN, University of Pennsylvania; F. NOWELL JONES, University of California, Los Angeles; G. L. KREEZER, Washington University; D. G. MARQUIS, Massachusetts Institute of Technology; ARTHUR W. MELTON, University of Michigan; W. C. H. PRENTICE, Wheaton College; T. A. RYAN, Cornell University.

Vol. LXXX
MEZES HALL, THE UNIVERSITY OF TEXAS
AUSTIN, TEXAS 78712

Copyright 1967 by Karl M. Dallenbach

TABLE OF CONTENTS

Articles and Notes

Alperson, B., and Bakan, P., Pronounceability, Attensity, and Interference in the Color-Word Test 416

Anderson, J. P., Fourteenth Annual Meeting of the Southwestern Psychological Association 643

Anstis, S. M., and Atkinson, J. Distortions in Moving Figures Viewed through a Stationary Slit 572

Anstis, S. M., and Loizos, C. M., Cross-Modal Judgments of Small Holes .. 51

Atkinson, J., and Anstis, S. M., Distortions in Moving Figures Viewed through a Stationary Slit 572

Bakan, P., and Alperson, B., Pronounceability, Attensity, and Interference in the Color-Word Test 416

Beck, J., and Shaw, W. A., Ratio-Estimation of Loudness-Intervals 59

Bevan, W., and Dukes, W. F., Stimulus-Variation and Recall: The Role of Belongingness 309

Birnbaum, I. M., Discrimination-Reversal, Extinction, and Acquisition after Different Amounts of Training 363

Bitterman, M. E., Gonzalez, R. C., and Holmes, N. K., Extinction in the Goldfish as a Function of Frequency and Amount of Reward 269

Blanton, R. L., and Odom, P. B., Rule Learning in Deaf and Hearing Subjects 391

Blessing, W. W., Coltheart, M., and Landauer, A. A., The Effect of False Perspective Cues on Distance- and Size-Judgments: An Examination of the Invariance Hypothesis 250

Boitano, J. J., and Isaacson, R. L., Effect of Variation in Shock-Intensity on the Behavior of Dorsal-Hippocampectomized Rats in Two Passive-Avoidance Situations 73

Brent, S. B., Linguistic and Non-Linguistic Processes in Serial Learning and Retroactive Interference 133

Britten, R., The Size-Distance Invariance Hypothesis 640

Browning, D., The Fifty-Ninth Annual Meeting of the Southern Society for Philosophy and Psychology 466

Burnham, C. A., and Worchel, S., Reduction of Autokinesis with Information about the Registration of Eye-Position 434

Campbell, D., Chapman, N., and Griffiths, E., An Apparatus for Detecting and Monitoring Movement 438

Carmichael, L., The 1966 Meeting of the American Philosophical Society 464

Carmichael, L., The 1967 Meeting of the National Academy of Sciences .. 465

Caul, W. F., and Ludvigson, H. W., Spatial Generalization as a Function of Variation in a Nonspatial Attribute, Instructions, and Individual Strategies 186

Ceraso, J., The Recall of Long and Short Stimulus-Lists 221

Chapman, N., Campbell, D., and Griffiths, E., An Apparatus for Detecting and Monitoring Movement 438

Cline, M. G., The Perception of Where a Person Is Looking 41

Coffman, T. L., Karlins, M., Lamm, H., and Schroder, H. M., Conceptual Complexity, Recall, and Identification 631

Coltheart, M., Blessing, W. W., and Landauer, A. A., The Effect of False Perspective Cues on Distance-and Size-Judgments: An Examination of the Invariance Hypothesis 250

Cooper, L. M., Hilgard, E. R., Morgan, A. H., and Voevodsky, J., The Measurement of Suprathreshold Pain 124

CROVITZ, H. F., The Form of Logical Solutions 461
CROWDER, W. F., and PICKENS, R. W., A Recorder of Locomotor Activity .. 442
DALLENBACH, K. M., An Acknowledgment 318
DALLENBACH, K. M., An Editorial Announcement 491
DALLENBACH, K. M., Errata 318, 469
DAVID, K. H., and DIELMAN, T. E., Temporal Arrangement and Specificity of Set in an Autokinetic Situation 426
DAWSON, W. W., and JONES, Q. R., JR., A Dynamic Cue of the Magnitude of Tactile Sensation 287
DAY, R. H., and WADE, N. J., Tilt and Centrifugation in Changing the Direction of Body-Force 637
DES LAURIERS, G., MITCHELL, D., and WONG, R., Serial Learning of Children as Facilitated by Mediation 140
DIAMOND, L., The Effect of Training Procedures on the Double Alternation-Behavior of Laboratory Rats in a Temporal Maze 594
DICKSON, D., LEIBOWITZ, H. W., and POLLARD, S. W., Monocular and Binocular Size-Matching as a Function of Distance at Various Age-Levels 263
DIELMAN, T. E., and DAVID, K. H., Temporal Arrangement and Specificity of Set in an Autokinetic Situation 426
DOCKRILL, F. J., LEVY, B. A., and MC NULTY, J. A., The Subthreshold Perception of Stimulus-Meaning 28
DONNELLY, M. B., and RIMOLDI, H. J. A., Experimental Considerations Concerning Category and Magnitude Scaling 602
DUKES, W. F., and BEVAN, W., Stimulus-Variation and Recall: The Role of Belongingness 309
EAGLE, M. N., The Effect of Learning Strategies upon Free Recall 421
EPSTEIN, W., Perceptual Learning Resulting from Exposure to a Stimulus-Invariant 205
EYMAN, R. K., The Effects of Sophistication on Ratio- and Discriminative Scales 520
FISHER, G. H., A Common Principle Relating to the Müller-Lyer and Ponzo Illusions 626
FISHER, G. H., Distortion Gradients and the Necker Cube 453
FISHER, G. H., Measuring Ambiguity 541
FITZGERALD, R. E., and MARSHALL, A. J., Left-Right Field Differences with Partial Report of Letters 370
FLAX, S. W., and HAHN, W. W., A Solid-State Shock Absorber 446
FREEMAN, R. B., JR., Optical Calibration of the Frontal Plane 302
GALLOWAY, A., and KENNEDY, A., Retrieval Time and the Effect of Serial Position 430
GILBERT, A. J., Factors Involved in Judgments Made by the Method of Constant Stimuli 586
GLICK, J. A., RAND, G., WAPNER, S., and WEINBERG, J., Effect of Speed of Movement on Tactual Kinesthetic Perception of Extent 608
GLICKMAN, M., and SEGAL, S. J., Relaxation and the Perky Effect: The Influence of Body Position on Judgments of Imagery 257
GONZALEZ, R. C., BITTERMAN, M. E., and HOLMES, N. K., Extinction in the Goldfish as a Function of Frequency and Amount of Reward 269
GRIFFITHS, E., CAMPBELL, D., and CHAPMAN, N., An Apparatus for Detecting and Monitoring Movement 438
GRISSOM, R. J., Group Experiment in Hearing 120
GUMENIK, W. E., and WEBB, D., Effects of the Relevance of Interpolated Stimuli on Time-Error in the Comparative Judgment of Weights 115
GUNN, W. J., and LOEB, M., Correlations of Performance in Detecting Visual and Auditory Signals 236
HAHN, W. W., and FLAX, S. W., A Solid-State Shock Absorber 446
HALL, J. F., Relationships among Number of Measures of Meaningfulness .. 291
HAYES, D. P., and MELTZER, L., Bone-Conducting Microphones 619

HELSON, H., and WOODRUFF, B., Torque-Sensitivity as a Function of Knob-Radius and Load 558
HEPBURN, K. L., PAPPAS, B. A., and SUBOSKI, M. D., A Comparison of Recall and Binary Recognition 398
HILGARD, E. R., Kenneth Wartenbee Spence: 1907-1967 314
HILGARD, E. R., COOPER, L. M., MORGAN, A. H., and VOEVODSKY, J., The Measurement of Suprathreshold Pain 124
HIRSH, I. J., Max Frederick Meyer: 1873-1967 644
HOFMAN, J. E., An Analysis of Concept-Clusters in Semantic Inter-Concept Space 345
HOLMES, D. S., 'Closure' in a Gapped Circle Figure 614
HOLMES, N. K., BITTERMAN, M. E., and GONZALEZ, R. C., Extinction in the Goldfish as a Function of Frequency and Amount of Reward 269
IRWIN, R. J., and PORSOLT, R. D., Binaural Summation in Loudness of Two Tones as a Function of Their Bandwidth 384
ISAACSON, R. L., and BOITANO, J. J., Effects of Variation in Shock-Intensity on the Behavior of Dorsal-Hippocampectomized Rats in Two Passive-Avoidance Situations 73
IVERSON, M. A., The Thirty-Eighth Annual Meeting of the Eastern Psychological Association 468
JARRARD, L. E., and LEWIS, T. C., Effects of Hippocampal Ablation and Intertrial Interval on Acquisition and Extinction of a Complex Maze 66
JERISON, H. J., Apparent Motion of a Vista: An Illusion of Perspective 448
JONES, Q. R., JR., and DAWSON, W. W., A Dynamic Cue of the Magnitude of Tactile Sensation 287
JUDISCH, J. M., and LEIBOWITZ, H. W., The Relation between Age and the Magnitude of the Ponzo Illusion 105
JUDISCH, J. M., and LEIBOWITZ, H. W., Size-Constancy in Older Persons: A Function of Distance 294
JULIUS, M., MAIER, N. R. F., and THURBER, J. A., Studies in Creativity: Individual Differences in the Storing and Utilization of Information .. 492
KARLINS, M. COFFMAN, T. L., LAMM, H., and SCHRODER, H. M., Conceptual Complexity, Recall, and Identification 631
KATZ, M. S., Feedback and Accuracy of Target Positioning in a Homogeneous Visual Field 405
KENNEDY, A., and GALLOWAY, A., Retrieval Time and the Effect of Serial Position 430
KINNEY, J. A. S., LURIA, S. M., and WEISSMAN, S., Estimates of Size and Distance Underwater 282
KOH, S. D., Time-Error in Comparisons of Preferences for Musical Excerpts 171
KOPLIN, J. H., and MOATES, D. R., Convergent Associations in Mediated Generalization 81
KRAUSKOPF, J., Heterchromatic Stabilized Images: A Classroom Demonstration 634
LAMM, H., COFFMAN, T. L., KARLINS, M., and SCHRODER, H. M., Conceptual Complexity, Recall, and Identification 631
LANDAUER, A. A., BLESSING, W. W., and COLTHEART, M., The Effect of False Perspective Clues on Distance- and Size-Judgments: An Examination of the Invariance Hypothesis 250
LEIBOWITZ, H. W., and JUDISCH, J. M., The Relation between Age and the Magnitude of the Ponzo Illusion 105
LEIBOWITZ, H. W., and JUDISCH, J. M., Size-Constancy in Older Persons: A Function of Distance 294
LEIBOWITZ, H. W., DICKSON, D., and POLLARD, S. W., Monocular and Binocular Size-Matching as a Function of Distance at Various Age-Levels 263
LEVY, B. A., DOCKRILL, F. J., and MC NULTY, J. A., The Subthreshold Perception of Stimulus-Meaning 28
LEWIS, T. C., and JARRARD, L. E., Effects of Hippocampal Ablation and Intertrial Interval on Acquisition and Extinction of a Complex Maze 66

LOEB, M., and GUNN, W. J., Correlations of Performance in Detecting Visual and Auditory Signals 236
LOIZOS, C. M., and ANSTIS, S. M., The Cross-Modal Judgment of Small Holes 51
LUDVIGSON, H. W., and CAUL, W. F., Spatial Generalization as a Function of Variation in the Nonspatial Attribute, Instructions, and Individual Strategies 186
LURIA, S. M., Color-Name as a Function of Stimulus-Intensity and Duration 14
LURIA, S. M., KINNEY, J. A. S., and WEISSMAN, S., Estimates of Size and Distance Underwater 282
MCALLISTER, D. E., and MCALLISTER, W. R., Drive and Reward in Aversive Learning 377
MCNULTY, J. A., DOCKRILL, F. J., and LEVY, B. A., The Subthreshold Perception of Stimulus-Meaning 28
MAIER, N. R. F., JULIUS, M., and THURBER, J. A., Studies in Creativity: Individual Differences in the Storing and Utilization of Information .. 492
MARKS, L. E., Judgments of Grammaticalness of Some English Sentences and Semi-Sentences 196
MARSHALL, A. J., and FITZGERALD, R. E., Left-Right Field Differences with Partial Report of Letters 370
MELTZER, L., and HAYES, D. P., Bone-Conducting Microphones 619
MICHON, J. A., The Game of *JAM*—An Isomorph of Tic-Tac-Toe 137
MITCHELL, D., DES LAURIERS, G., and WONG, R., Serial Learning of Children as Facilitated by Mediation 140
MOATES, D. R., and KOPLIN, J. H., Convergent Associations in Mediated Generaliation 81
MORGAN, A. H., COOPER, L. M., HILGARD, E. R., and VOEVODSKY, J., The Measurement of Suprathreshold Pain 124
NATSOULAS, T., Alternative Interpretation of Cutaneous Perception 313
NEWMAN, E. B., Seventy-Fourth Annual Convention of the American Psychological Association 144
NEWMAN, S. E., Effects of Serial Presentation of Paired Associates on Performance during and after Training 100
ODOM, P. B., and BLANTON, R. L., Rule Learning in Deaf and Hearing Subjects 391
PAPPAS, B. A., HEPBURN, K. L., and SUBOSKI, M. D., A Comparison of Recall and Binary Recognition 398
PICKENS, R. W., and CROWDER, W. F., A Recorder of Locomotor Activity .. 442
PLATT, J. R., and SPENCE, K. W., Intertrial Interval and Response-Competition in Discrete-Trials Lever-Pressing 110
POLLARD, S. W., DICKSON, D., and LEIBOWITZ, H. W., Monocular and Binocular Size-Matching as a Function of Distance at Various Age-Levels 263
PORSOLT, R. D., and IRWIN, R. J., Binaural Summation in Loudness of Two Tones as a Function of Their Bandwidth 384
POSTMAN, L., Sixty-Third Annual Meeting of the Society of Experimental Psychologists 465
RABBITT, P. M., Learning to Ignore Irrelevant Information 1
RAND, G., GLICK, J. A., WAPNER, S., and WEINBERG, J., Effect of Speed of Movement on Tactual Kinesthetic Perception of Extent 608
RAY, A. J., JR., Avoidance-Learning in the Tiger Salamander 642
RIMOLDI, H. J. A., and DONNELLY, M. B., Experimental Considerations Concerning Category and Magnitude Scaling 602
ROBY, T. B., and SINGER, E., Measurement of Sequential Behavior by Successive Differences 276
SARRIS, V., Adaptation-Level Theory: Two Critical Experiments on Helson's Weighted-Average Model 331
SARRIS, V., Comments on Helson and Masters' "Study of Inflection-Points in the Locus Adaptation-Level as a Function of Anchor-Stimuli" 304

SCHIFFMAN, H. R., Size-Estimation of Familiar Objects under Informative and Reduced Conditions of Viewing 229
SCHNALL, M., Global Errors in Children's Reproductions of Progressively Changing Pictures 213
SCHRODER, H. M., COFFMAN, T. L., KARLINS, M., and LAMM, H., Conceptual Complexity, Recall, and Identification 631
SEGAL, S. J., and GLICKMAN, M., Relaxation and the Perky Effect: The Influence of Body Position in Judgments of Imagery 257
SERSEN, F. A., VETTER, R. J., and WEINSTEIN, S., Preference for Bodily Parts Following Mastectomy 458
SHAW, W. A., and BECK, J., Ratio-Estimation of Loudness-Intervals 59
SHICKMAN, G. M., An Antilogarithmic Grid and Some Applications 128
SIEGEL, M. H., Stimulus-Repetition and Color Discrimination 411
SILVERSTEIN, A., The Prediction of Individual Association-Hierarchies from Cultural Frequencies 88
SINGER, E., Ability and the Use of Optimal Strategy in Decisions 243
SINGER, E., and ROBY, T. B., Measurement of Sequential Behavior by Successive Differences 276
SPENCE, K. W., and PLATT, J. R., Intertrial Interval and Response-Competition in Discrete-Trials Lever-Pressing 110
SPITZ, H. J., Ganz's Hypothesis of Figural After-Effects 462
STABLER, J. R., and TAYLOR, A., Performance in a Runway 95
STICHT, T. G., The Grayson-Stadler Electronic Switch in Reaction-Time Measurements 625
STONE, L. A., Illusory Motion 142
SUBOSKI, M.D., HEPBURN, K. L., and PAPPAS, B. A., A Comparison of Recall and Binary Recognition 398
TAYLOR, A., and STABLER, J. R., Performance in a Runway 95
THOMAS, J. P., Equipment for Varying the Intensity of Light 297
THURBER, J. A., JULIUS, M., and MAIER, N. R. F., Studies in Creativity: Individual Differences in the Storing and Utilization of Information .. 492
VETTER, R. J., SERSEN, F. A., and WEINSTEIN, S., Preferences for Bodily Parts Following Mastectomy 458
VOEVODSKY, J., COOPER, L. M., HILGARD, E. R., and MORGAN, A. H., The Measurement of Suprathreshold Pain 124
WADE, N. J., and DAY, R. H., Tilt and Centrifugation in Changing the Direction of Body-Force 637
WAPNER, S., GLICK, J. A., RAND, G., and WEINBERG, J., Effect of Speed of Movement in Tactual Kinesthetic Perception of Extent 608
WEBB, D., and GUMENIK, W. E., Effects of the Relevance of Interpolated Stimuli on Time-Error in the Comparative Judgment of Weights 115
WEINBERG, J., GLICK, J. A., RAND, G., and WAPNER, S., Effect of Speed of Movement in Tactual Kinesthetic Perception of Extent 608
WEINSTEIN, S., SERSEN, F. A., and VETTER, R. J., Preferences for Bodily Parts Following Mastectomy 458
WEISSMAN, S., KINNEY, J. A. S., and LURIA, S. M., Estimates of Size and Distance Underwater 282
WONG, R., DES LAURIERS, G., and MITCHELL, D., Serial Learning of Children as Facilitated by Mediation 140
WOODRUFF, B., and HELSON, H., Torque-Sensitivity as a Function of Knob-Radius and Load 558
WORCHEL, S., and BURNHAM, C. A., Reduction of Autokinesis with Information about the Registration of Eye-Position 434
YOUSSEF, Z. I., Association and Integration in Serial Learning 355

Book Reviews

(The reviewer's name appears in parentheses after the title of the work.)

Alpert, R., *et al.*, Identification and Child Rearing (A. Stein) 481
Appley, M. H., and Cofer, C. N., Motivation: Theory and Research (T. A. Ryan) 319
Atkinson, J. W., An Introduction to Motivation (T. A. Ryan) 319
Atkinson, R. C., *et al.*, An Introduction to Mathematical Learning (H. Bernbach) 482
Beritoff, J. S., Neural Mechanics of Higher Vertebrate Behavior (R. L. Isaacson) 478
Bower, G. H., *et al.*, An Introduction to Mathematical Learning (H. Bernbach) 482
Brown, R., Social Psychology (A. Jenness) 324
Bush, R. R., *et al.*, Handbook of Mathematical Psychology (R. McGinnis) .. 322
Bush, R. R., *et al.*, Readings in Mathematical Psychology (R. McGinnis) .. 322
Campbell, D. P., The Results of Counseling: Twenty-Five Years Later (A. G. Nelson) 483
Campbell, D. T., *et al.*, Unobtrusive Measures: Nonreactive Research in the Social Sciences (P. Gump) 161
Cofer, C. N., and Appley, M. H., Motivation: Theory and Research (T. A. Ryan) 319
Crothers, E. J., *et al.*, An Introduction to Mathematical Learning (H. Bernbach) 482
Deese, J., The Structure of Associations in Languages and Thought (M. Anisfeld) 646
Dohrenwend, B. S., *et al.*, Interviewing: Its Forms and Functions (J. H. Gustad) 484
Epstein, W., Varieties of Perceptual Learning (J. F. Wohlwill) 474
Eysenck, H. J., and Rachman, S., The Causes and Cures of Neurosis (N. D. Sundberg) 470
Foulkes, D., The Psychology of Sleep (D. Foster) 154
Gaito, J., Molecular Psychology: A Clinical Approach to Learning and Other Behavior (M. R. Rosenweig) 656
Galanter, E., *et al.*, Handbook of Mathematical Psychology (R. McGinnis) 322
Galanter, E., *et al.*, Readings in Mathematical Psychology (R. McGinnis) 322
Gibson, J. J., The Senses Considered as Perceptual Systems (E. G. Boring) 150
Gregory, R. L., Eye and Brain: The Psychology of Seeing (J. Beck) 159
Guion, R. M., Personnel Testing (P. C. Smith) 326
Hall, C. S., and Van de Castle, R. L., The Content Analysis of Dreams (W. Stephenson) 156
Hall, J. F., The Psychology of Learning (W. A. Russell) 650
Hering, E., Outlines of a Theory of the Light Sense (R. B. MacLeod) 163
Himwich, H. E., *et al.*, Amines and Schizophrenia (A. C. Goldstein) 659
Howard, I. P., and Templeton, W. B., Human Spatial Orientation (H. L. Pick) 476
Hunt, F. R., *et al.*, Experiments in Induction (H. A. Simon) 651
Hyman, R., The Nature of Psychological Inquiry (G. A. Ferguson) 658
Kahn, R. L., and Katz, D., The Social Psychology of Organization (R. M. Stogdill) 480
Katz, D., and Kahn, R. L., The Social Psychology of Organization (R. M. Stogdill) 480
Ketty, S. S., *et al.*, Amines and Schizophrenia (A. C. Goldstein) 659
Kirsch, J., Shakespeare's Royal Self (L. J. Teagarden) 485
Klein, D., *et al.*, Interviewing: Its Forms and Functions (J. H. Gustad) .. 484
Louch, A. R., Explanation and Human Action (M. Black) 655
Luce, R. D., *et al.*, Handbook of Mathematical Psychology (R. McGinnis) 322
Luce, R. D., *et al.*, Readings in Mathematical Psychology (R. McGinnis) .. 322
Marin, J., *et al.*, Experiments in Induction (H. A. Simon) 651

MURRAY, E. J., Sleep, Dreams, and Arousal (D. Foster) 154
RACHMAN, S., and EYSENCK, H. J., The Causes and Cures of Neurosis (N. D. Sundberg) 470
RAU, L., *et al.*, Identification and Child Rearing (A. Stein) 481
RICHARDSON, S. A., *et al.*, Interviewing: Its Forms and Functions (J. H. Gustad) 484
RICKS, D. F., and WESSMAN, A. E., Mood and Personality (V. Nowlin) .. 146
SCHULTZ, D. P., Sensory Restriction: Effects on Behavior (D. W. Fiske) .. 661
SCHWARTZ, R. D., *et al.*, Unobtrusive Measures: Nonreactive Research in the Social Sciences (P. Gump) 161
SEARS, R. R., *et al.*, Identification and Child Rearing (A. Stein) 481
SECHREST, L., *et al.*, Unobtrusive Measures: Nonreactive Research in the Social Sciences (P. Gump) 161
SIEGEL, S., Choice, Strategy, and Utility (L. D. Phillips) 660
SMYTHIES, J. R., *et al.*, Amines and Schizophrenia (A. C. Goldstein) 659
STANISLAND, A. C., Patterns of Redundancy: A Psychological Study (H. W. Hake) 472
STONE, P., *et al.*, Experiments in Induction (H. A. Simon) 651
TEMPLETON, W. B., and HOWARD, I. P., Human Spatial Orientation (H. L. Pick) 476
THOMPSON, R. F., Foundations of Physiological Psychology (B. H. Halpern) 653
TINKER, M. A., Bases for Effective Reading (J. Chall) 661
VAN DE CASTLE, R. L., and HALL, C. S., The Content Analysis of Dreams (W. Stephenson) 156
VELDMAN, D. J., Fortran Programming for the Behavioral Sciences (V. E. McGee) 657
WEBB, E. J., *et al.*, Unobtrusive Measures: Nonreactive Research in the Social Sciences (P. Gump) 161
WESSMAN, A. E., and RICKS, D. F., Mood and Personality (V. Nowlin) .. 146

The American Journal of Psychology

The American Journal of Psychology

The American Journal of Psychology

INDEX

By RAND B. EVANS, Wright State University

(The names of authors of original articles are printed in CAPITALS and Small Capitals; of authors of books reviewed in roman, and of reviewers in *italics*.)

ALPERSON, B. 416
Alpert, R. 481
ANDERSON, J. P. .. 643
Anisfeld, M. 646
ANSTIS, S. M. ...51, 572
Appley, M. H. 319
ATKINSON, J. 572
Atkinson, J. W. ... 319
Atkinson, R. C. ... 482

BAKAN, P. 416
BECK, J. 59
Beck, J. 159
Beritoff, J. S. 478
Bernbach, H. 482
BEVAN, W. 309
BIRNBAUM, I. M. .. 363
BITTERMAN, M. E. . 269
Black, M. 655
BLANTON, R. L. ... 391
BLESSING, W. W. .. 250
BOITANO, J. J. 73
Boring, E. G. 150
Bower, G. H. 482
BRENT, S. B. 133
BRITTEN, R. 640
Brown, R. 324
BROWNING, D. 466
BURNHAM, C. A. .. 434
Bush, R. R. 322

CAMPBELL, D. 438
Campbell, D. P. .. 483
Campbell, D. T. .. 161
CARMICHAEL, L. .464, 465
CAUL, W. F. 186
CERASO, J. 221
Chall, J. 661
CHAPMAN, N. 438
CLINE, M. G. 41
Cofer, C. N. 319
COFFMAN, T. L. .. 631
COLTHEART, M. ... 250
COOPER, L. M. 124
Crothers, E. J. 482
CROVITZ, H. F. 461
CROWDER, W. F. .. 442

DALLENBACH, K. M. 318, 469, 491
DAVID, K. H., ... 426
DAWSON, W. W. .. 287
DAY, R. H. 637
Deese, J. 646
DES LAURIERS, G. .. 140
DIAMOND, L. 594
DICKSON, D. 263
DIELMAN, T. E. .. 426
DOCKRILL, F. J. .. 28
Dohrenwend, B. S. . 484
DONNELLY, M. B. . 602
DUKES, W. F. 309

EAGLE, M. N. 421
EPSTEIN, W. 205
Epstein, W. 474
EYMAN, R. K. 520
Eysenck, H. J. 470

Ferguson, G. A. .. 656
FISHER, G. H. 453, 541, 626
Fiske, D. W. 661
FITZGERALD, R. E. . 370
FLAX, S. W. 446
Foster, D. 154
Foulkes, D. 154
FREEMAN, R. B., JR. 302

Gaito, J. 656
Galanter, E. 322
GALLOWAY, A. 430
Gibson, J. J. 150
GILBERT, A. J. 586
GLICK, J. A. 608
GLICKMAN, M. 257
Goldstein, A. C. .. 659
GONZALEZ, R. C. .. 269
Gregory, R. L. 159
GRIFFITHS, E. 438
GRISSOM, R. J. 120
Guion, R. M. 326
GUMENIK, W. E. .. 115
Gump, P. 161
GUNN, W. J. 236
Gustad, J. W. 484

HAHN, W. W. 446
Hake, H. W. 472
Hall, C. S. 156
HALL, J. F. 291
Hall, J. F. 650
Halpern, B. F. 653
HAYES, D. P. 619
HELSON, H. 558
HEPBURN, K. L. .. 398
Hering, E. 163
HILGARD, E. R. ..124, 314
Himwich, H. E. .. 659
HIRSH, I. J. 644
HOFMAN, J. E. 345
HOLMES, D. S. 614
HOLMES, N. K. 269
Howard, I. P. 476
Hunt, F. R. 651
Hyman, R. 658

IRWIN, R. J. 384
ISAACSON, R. L. ... 73
Isaacson, R. L. 478
IVERSON, M. A. ... 468

JARRARD, L. E. ... 66
Jenness, A. 324
JERISON, H. J. 448
JONES, Q. R., JR. .. 287
JUDISCH, J. M. ..105 294
JULIUS, M. 492

Kahn, R. L. 480
KARLINS, M. 631
Katz, D. 480
KATZ, M. S. 405
KENNEDY, A. 430
Ketty, S. S. 659
KINNEY, J. A. S. .. 282
Kirsch, J. 485
Klein, D. 484
KOH, S. D. 171
KOPLIN, J. H. 81
KRAUSKOPF, J. 634

LAMM, H. 631
LANDAUER, A. A. .. 250
LEIBOWITZ, H. W. 105, 263, 294
LEVY, B. A. 28
LEWIS, T. C. 66
LOEB, M. 236
LOIZOS, C. M. 51
Louch, A. R. 655

Luce, R. D. 322
Ludvigson, H. W. . 186
Luria, S. M. 14, 282

McAllister, D. E. . 377
McAllister, W. R. 377
McGee, V. E. 657
McGinnis, R. 322
McNulty, J. A. .. 28
MacLeod, R. B. .. 163
Maier, N. R. F. .. 492
Marin, J. 651
Marks, L. E. 196
Marshall, A. J. .. 370
Meltzer, L. 619
Michon, J. A. 137
Mitchell, D. 140
Moates, D. R. 81
Morgan, A. H. ... 124
Murray, E. J. 154

Natsoulas, T. 313
Nelson, A. G. 483
Newman, E. B. .. 144
Newman, S. E. ... 100
Nowlin, V. 146

Odom, P. B. 391

Pappas, B. A. 398
Phillips, L. D. 660
Pick, H. L. 476
Pickens, R. W. .. 442
Platt, J. R. 110
Pollard, S. W. .. 263
Porsolt, R. D. 384
Postman, L. 465

Rabbitt, P. M. 1
Rachman, S. 470
Rand, G. 608
Rau, L. 481
Ray, A. J., Jr. 642
Richardson, S. A. .. 484
Ricks, D. F. 146
Rimoldi, H. J. A. .. 602
Roby, T. B. 276
Rosenzweig, M. R. . 656
Russell, W. A. 650
Ryan, T. A. 319

Sarris, V. 304, 331
Schiffman, H. R. . 229
Schnall, M. 213
Schroder, H. M. .. 631
Schultz, D. P. 661
Schwartz, R. D. 161
Sears, R. R. 481
Sechrest, L. 161
Segal, S. J. 257
Sersen, F. A. 458
Shaw, W. A. 59
Shickman, G. M. . 128
Siegel, M. H. 411
Siegel, S. 660
Silverstein, A. ... 88
Simon, H. A. 650
Singer, E. 243, 276
Smith, P. C. 326
Smythies, J. R. 659
Spence, K. W. 110
Spitz, H. J. 462
Stabler, J. R. 95
Staniland, A. C. ... 472
Stein, A. 481
Stephenson, W. 154
Sticht, T. G. 625
Stogdill, R. M. 480
Stone, L. A. 142
Stone, P. 651
Suboski, M. D. ... 398
Sundberg, N. D. ... 470

Taylor, A. 95
Teagarden, L. J. ... 485
Templeton, W. B. . 476
Thomas, J. P. 297
Thompson, R. F. .. 653
Thurber, J. A. ... 492
Tinker, M. A. 661

Van de Castle, R. L. 156
Veldman, D. J. 657
Vetter, R. J. 458
Voevodsky, J. 124

Wade, N. J. 637
Wapner, S. 608
Webb, B. 115
Webb, E. J. 161
Weinberg, J. 608
Weinstein, S. 458
Weissman, S. 282
Wessman, A. E. ... 146
Wohlwill, J. F. 474
Wong, R. 140
Woodruff, B. 558
Worchel, C. 434

Youssef, Z. I. 355

SUBJECTS

(References in *italic* figures are to reviews.)

Ablation, dorsal-hippocampal, rats, 73-80; hippocampal, and maze learning in rat, 66-72.
Acknowledgment, an, 318.
Action, explanation and, *655 f.*
Activity, apparatus for measuring, 438-445.
Acuity, visual, change with age, 295 f.
Adaptation-level, anchor effects and, 334-339, 344; anchor size and, 304-309; comparative method of constant stimuli in, 586-593; step intervals and, 339-344; weighted average model and, 331-344.
Affection, scales of, in judgment of musical excerpts, 177-184.
After-effects, figural, Ganz's hypothesis on, 462 ff.
Age, Ponzo illusion and, 105-109; size-constancy and, 267 f., 294 ff.; size-matching and, 268-268; visual acuity, change with, 295 f.
Ambiguity, in figures, measurement of, 541-557.
Ambiguous figures, *see* Puzzle pictures.
Anchor effects, adaptation-level theory and, 334-339, 344; children's reproductions of changing pictures and, 215-220.
Animal: Goldfish, resistance to extinction in, 269-275; rat and, in resistance to extinction as function of reward, 269-275.
Rat, discrimination-reversal over training and, 363-369; dorsal hippocampal ablation in, passive-avoidance tasks and, 73-80; double alternation learning in temporal maze, 594-560; goldfish and, in resistance to extinction as function of reward, 269-275; hippocampal ablation, maze learning and, 66-72; maze learning in, 66-72; passive-avoidance learning in, 73-80; performance in runway, 95-99.
Salamander, Tiger, avoidance-learning in, 642 f.
Announcement, editorial, 491.
Antilogarithmic grid, 128-133.
Apparatus: Activity records, 442-445.
Auditory, for group experiments, 120-123.
Interpersonal behavior, 42 f.
Microphone, bone-conducting, 619-624.
Movement monitor, electromagnetic, 438-441.
Optical, for calibration of frontal plane, 302 f.; light intensity variator, 297-301.
Shock 'scrambler,' solid state, 446 f.
Size-distance experiments, 251 f.
Stabilimeter, electromagnetic, 438-441.
Switch, electronic, for reaction-time measures, 625.
Visual, homogeneous field, 405 f.
Apprehension, span of, fixation-point and, 370-376, in figural aspects, 449-452.
Arousal, imagery and, 258-262.
Association, integration and, in serial learning, 355-362; in language and thought, *646-649.*
Association-hierarchies, individual, predicted from cultural frequencies, 86-94.
Attensity, interference in color-name test (Stroop) and, 416-420.
Audition, apparatus for group experiments in, 120-123; loudness, ratio estimation of, 59-65.
Auditory theory, Meyer's 645.
Autokinesis, reduction of, with eye-position feedback, 434-437, with restricted viewing, 434-437; set specificity and, 426-[illegible]; suggestion and, 426-429; temp[illegible] arrangement and, 426-429.

Behavior, neural mechanism of, *478 ff.*
Belongingness, verbal recall and, 309-312.
Bezold-Brücke phenomenon, color naming and, 19 f., 23, 26.
Biography: Baird, J. W., 491.
Bentley, Madison, 491.
Bitterman, M. E., 491.
Boring, E. G., 491.
Dallenbach, K. M., 491.

Hall, G. S., 491.
Hull, Clark, 315 ff.
Newman, E. B., 491.
Postman, Leo, 491.
Sanford, E. C., 491.
Stumpf, Carl, 644.
Titchener, E. B., 491.
Washburn, M. F., 491.
Yerkes, R. M., 315.
See also: Necrology.
Body-tilt, centrifugation and, in changing direction of body-force, 637-639.

Child-rearing, identification and, *481 f.*
Choice-behavior, *660 f.*
Closure, in broken circle, 614-618.
College entrance examination scores, decision-making and, 245-249.
Color-discrmination, stimulus repetition and, 411-415.
Color-naming, Bezold-Brücke phenomenon, 19 f., 23, 26; stimulus-duration and, 14-27; stimulus-intensity and, 14-27.
Color-word test, attensity and interference in, 416-420; pronounceability and interference in, 416-420
Concept-clusters, analysis of, 345-354.
Concept-formation, decision-making and, 245-249.
Concepts, educational, differentiation of, by semantic differential, 348-351.
Conceptual complexity, identification and, 631-634; recall and, 631-634.
Conditioning, extinction in, 317.
Counseling psychology, *483 f.*
Creativity, association in, 493-519; individual differences in, 492, 502-519; information-storage and utilization in, 492-519; measures of, 492-519; mechanisms of, postulated, 492 f., 518 f.; mental competence scores and, 510-519; as reorganization of experience, 492 ff., 518 f.; story writing, as measure of, 495-502, 513, sex differences and, 509 ff.; word image as measure of, 509-513.
Cues, of perspective, effect on size- and distance-judgments, 250-256; visual, binocular vs. monocular in size-matching, 263-268.

Deaf, rule-learning in, 391-397.
Decision-making: Ability and, 243-249.
College entrance examination and, 245-248.
Concept-formation and, 245-249.
Factor analysis of variables in, 243-249.
Memory-span and, 245-249.
Rote learning ability and, 244, 246-249.
Sex-differences in, 245-249.
Strategy in, 243-249.
Demonstration, classroom, heterochromatic stabilized images, 634-637.
Depression, feeling of, *146 f.*
Detection, cross-modal, correlation in, 236-242; intensity changes, 236-242.
Deuteranopia, color naming in, duration and, 20 ff.
Discrimination, color, quantal hypothesis and, 412-415, stimulus-repetition and, 411-415.
Distance, estimates of, in air and water, 282-286, underwater, 282-286.
Dreams, content analysis of, *156-159.*
Drive, adversive, instrumental learning and, 377-383; incentive and, in straight alley paradigms, 95-99; reward and, in instrumental learning, 377-383.

Elation, feeling of, *146 f.*
Errata, 45, 318, 469.
Errors, global, in children's reproductions of pictures, 213-220.
Eye-movements, pattern reversals and, 580-583; in perception of moving figures, 575-585.

Feedback, positioning of targets and, 405-410.
Feeling, personal, scales of inadequacy, *149.*
Figures, ambiguous, *see* Puzzle pictures; moving, distortions in, 572-585; reversible, measure of ambiguity in, 541-557, *see* Puzzle pictures.

Game, *JAM,* as isomorph of tic-tac-toe, 137-140, relation to number scrabble, 139 f.
Ganz's hypothesis, figural after-effects, 461 ff.
Generalization, spatial, instructions and, 189-195, in multiple-probability learning, 186-195, individual strategies and, 193 ff.
Grammar, of English sentences and semi-sentences, 196-204.

Happiness, personality characteristics associated with, *148;* variability in, among students, *146 f.*
Hearing, *see* Audition.
Hypnoid syndrome, Perky effect as, 262.

Identification, conceptual complexity and, 631-634.

Illusion: Apparent movement of a vista, 448-453.
Motion, 142 f.; nausea from, 143.
Müller-Lyer and Ponzo, common principle relating, 626-631; and Necker cube, compared, 453-457.
Necker cube, distortion gradients in, 453-457; Ponzo and Müller-Lyer, compared, 453-457.
Perspective, 448-453.
Ponzo, age and, 105-109, past theories criticized, 108 f.; Müller-Lyer, common principle relating, 626-631; changes in estimates of, with age, 294 ff.; as a distortion-gradient, 626-631; Müller-Lyer and Necker cube compared, 453-457.
Imagery, arousal level and, 258-262; body position and, 257-262; tension and, 261 f.
Incentive, drive and, 95-99.
Industrial psychology, *480 f.*
Information, storage and utilization of, individual differences in, 492-519.
Information-processing, conceptual complexity and, 631-634.
Inquiry, psychological, *658 f.*
Integration, association and, in serial learning, 355-362.
Intelligence, decision-making and, 243-249.
Intervening variables, Spence on, 317.
Interviewing, *484 f.*
Invariance hypothesis, an examination of, 250-256; size-distance, 640 f.

Judgment: Accuracy of, by mental retardates and normals, 536 f.
Affective, of musical excerpts, 177-184.
Comparative, of musical excerpts, time errors in, 171-185; of weights, time error and, 115-119.
Cross-modal, of holes, 51-58.
Discriminative, length, by mental retardates vs. naïve and trained normals, 521-529, 532.
Distance, 205-212; in air vs. water, 282-286; false perspective cues and, 250-256; underwater, 282-286.
Grammaticalness, as a function of inversion of word-order, 197-204; syntax and, 197-204; sentences and semi-sentences, 196-204.
Looking behavior in another person, 41-50; head movements and, 47-50.
Loudness, lambda scale of, 59-65; ratio-estimates of, 59-65; sone scale of, 59-65.
Ponzo illusion, age and, 105-109.
Size, in air vs. water, 282-286; of familiar objects under differing viewing conditions, 229-235; false perspective cues and, 250-256; of holes, 51-58; underwater, 282-286.
Size-distance, 205-212.
Target-positions, in homogeneous visual field, 405-410.

Language, associational structure in, *646-649.*
Learning, *650 f.:* Ability, rote, decision-making and, 244, 246-249.
Alternation, double, in temporal maze, by rat, 594-601; as symbolic process, 595, 599 ff.; training procedures and 594-601.
Associations, convergent, in mediated generalization, 81-87; mediation-hypothesis and, 81-87.
Chemical approach in, *656 f.*
Concept, *651-653.*
Discrete-trials lever-pressing paradigm, 110-114.
Discrimination, Spence on, 316.
Discrimination-reversal, overtraining and, 363-369.
Drive and incentive in straight alley paradigms, 95-99.
Feigenbaum's theory of, 430-433.
Goal response, anticipatory, 95-99.
Instrumental, avoidance-conditioning in Tiger salamander, 642 f.; drive, adversive, and, 377-383, and reward in, 377-383.
Intertrial interval and response-competition in discrete-trials lever-pressing, 110-114.
Maze, hippocampal ablation and, 66-72; intertrial interval and, 66-72.
Overtraining-reversal effect (ORE), 363-369.
Paired associates, cross-modal stimuli in, 100-104; serial learning and, 356-362; serial position and retrieval time in, 430-433; serial presentation and, 100-104.
Passive-avoidance, in dorsal-hippocampectomized rats, 73-80; shock and, in rat, 73-80.
Perceptual, *474 ff.;* exposure to stimulus-invariant and, 205-212.
Probability, multiple instructions and, 189-195, spatial generalization in, 186-195, as a function of individual strategies, 193 ff.; strategies and, 276-281, *660 f.*
Recall, belongingness of elements and,

309-312; confidence ratings and, 400 f.; free, associative organization and, 421-425, instructions and, 429 ff., learning strategies on, 421-425, rehearsal and, 421-425; long and short lists, 221-228; Receiver Operating Characteristic (ROC) as measure of, 400-404; recognition and, compared, 398-404.
Recognition, confidence ratings and, 400 f.; recall and, compared, 398-404; Receiver Operating Characteristic (ROC) as measure of, 400-404.
Resistance to irrelevant information in, 1-13.
Response-competition, intertrial interval and, in discrete-trials lever-pressing, 110-114.
Reward, resistance to extinction in goldfish and, 269-275.
Rules of order in the deaf, 391-397.
Serial, association and integration in, 355-362; in children, facilitated by mediation, 140 ff.; integration and association in, 355-362; linguistic processes in, 133-137; non-linguistic processes in, 133-137; paired associates, and, 356-362; positional cues in, 355; retroactive interference in, 133-137.
Serial position error (SPE) and, 133-137.
See also: Association.
Learning theory, mathematical, *482 f.*
Linguistics, judgment of grammaticalness in sentences and semi-sentences, 196-204.
Loudness, scales of, compared, 59-65.

Mastectomy, preferences for body parts after, 458-461.
Mathematical psychology, *322 ff.*
Meaning, perception of physical stimulus structure and, 29-40; subthreshold perception of, 28-40.
Meaningfulness, determinants of, in discrete verbal units, 291-293.
Measurement, non-reactive, *161 f.;* principles of, in the social sciences, *161 f.*
Mediation, role in facilitation of serial learning in children, 140 ff.
Meetings: Amer. Philos. Soc., 464 f.
Amer. Psychol. Assn., 144 f.
Eastern Psychol. Assn., 468 f.
Nat. Acad. Sciences, 465.
Soc. Exper. Psychologists, 465 f.
Southern Soc. Philos. and Psychol., 466 f.
Southwestern Psychol. Assn., 643 f.
Memory, role of hippocampus in, 66-72.
Memory-span and decision-making, 245-249.
Method: Association, free, in language and thought, *646-649.*
Color-naming, 14-27.
Cross-modal, in detection, 236-242.
Interpolated stimuli, relevance on time-error in lifted weights, 115-119.
Learning, discrete-trials lever-pressing paradigm, 110-114; double alternation, 594-601; paired associates, 100-104, 356-362, 430-433; recall, 221-228, 400 f., 421-425, 631-634, compared with recognition, 400-404; recognition, compared to recall, 400 f.; serial, 133-137, 140 ff., 355-362; signal, detection procedure, 400-404; straight alley paradigm, 195 f.
Psychophysical, *see* Psychophysics.
Semantic differential, 345-354.
Meyer, Max F., 644 f.
Microphone, bone-conduction, 619-624.
Mood, personality and, *146-150.*
Motivation, *319-322;* mathematical formulations of, 316 f.; reward, resistance to extinction in goldfish, and, 269-275; *see* also Drive.
Movement-monitor, 438-441.

Necker cube, distortion gradients and, 453-457.
Necrology: Meyer, Max F., 644 f.
Spence, K. W., 314-318; portrait, 170; acknowledgement, 318.
Neurosis, causes of, *470 ff.*

Organization, visual, in children, 213-220.

Pain, derived from cold, 124-128, formula for, 125, 127 f.; suprathreshold, measurement of, 124-128.
Perky effect, body position and, 257-262.
Personality, factor analysis of, flaws in, *150;* mood and, *146-150.*
Perception: Adaptation-level, anchor-size and, note on, 304-309.
Anorchoscopic, 572-585.
Auditory, loudness, 384-390.
Binaural tone, loudness as function of bandwidth, 384-390.
Closure, in gapped circle, 614-618.
Color, interference in Stroop test, 416-420; guantal hypothesis and, 412-415; stimulus-repetition and, 411-415.

Cross-modal, of holes, 51-58.
Distance, estimates in air vs. water, 282-286; false perspective cues and, 250-256; retinal size and, 205-212; underwater, 282-286.
Figural after-effects, Ganz's hypothesis and, 462 ff.
Figure, ground and, phenomena, 549, 554 f.; of moving forms, distortions in, 572-585, eye-movement in, 575-585; tilt-distortion in, 578 ff.; multi-aspect, 550 ff.; reversible, chalice and faces, 546, measure of ambiguity in, 541-557.
Fluctuations of, in reversible figures, 547.
Ganz's hypothesis on figural after-effects, 461 ff.
Imagery, body position and, 257-262; tension and, 261, f.
Intensity-changes, 236-242.
Invariance hypothesis, 250-256.
Letters, dependent on relation to fixation-point, 370-376.
Looking behavior in another person, 41-50, head movements and, 47-50.
Loudness, binaural summation in, 384-390, lambda scale of, 59-65, sone scale of, 59-65.
Pattern reversals, eye-movements and, 580-583.
Perky effect, body position and, 257-262; hypnoid syndrome and, 267.
Sense, *150-154*. *See* also: Sensation.
Size, age, distance and, 263-268; binocular vs. monocular cues in, 263-268; estimates, in air vs. water, 282-286; false perspective cues and, 250-256; familiar objects, under different viewing conditions, 229-235; of holes, 51-56; monocular vs. binocular cues in, 263-268; underwater, 282-286.
Size-constancy, age and, 294 ff.; distance and, 294 ff.
Size-distance, hypothesis, underwater, 282-286.
Spatial orientation, *476 ff.*
Subliminal, of meaning, 28-40.
Tactual, of hole size, 52-58.
Tactual-kinesthetic, speed of movement on, 608-613.
Visual, *159 ff.;* in children, 213-220; Hering on, *163;* mechanisms of, *159 ff.;* of hole size, 52-58; *see* also Vision.
Perceptual ecology, *150 f.*
Perspective, cues of, effect on size and distance judgments, 250-256.
Physiological psychology, *653 f.*
Point of subjective equality, shift of, effect of interpolated weights on, 115-119.
Preference, 'background effect' and, 177-181; body part, after mastectomy, 458-461; comparisons of, for musical excerpts, time-error in, 171-185; ratings of, for musical excerpts, 171-185.
Probability learning, strategies in, *660 f.*
Problems, creative, logical solutions and, 461 f.
Programming, computer, *657 f.*
Psychology of the 'other one,' Meyer's formulation of, 644 f.
Psychophysics: Method, constant stimuli, comparative adaptation-levels (CAL), 586-593, judgments in, 586-593; constant sum, 533-540; interpolated stimuli, 115-119; paired comparison, 521, 525 ff, 529-532.
Point of subjective equality (*PSE*), interpolated weights and, 115-119.
Quantal hypothesis in color perception, 411-415.
Scales, category, 602-607; constant sum, 527 ff., 532-540; discriminative, effect of sophistication on, 520-540; loudness, 59-65; magnitude, 602-607; paired comparison, 521, 525 ff., 529-532, and constant sum, compared, 533-540; ratio, effect of sophistication on, 520-540.
Scaling, by mental retardates, compared with trained and naive normals, 520-540.
Time-error in, 171 f.
Puzzle pictures, gypsy and girl, 543; hunter and rabbit, 545; husband and father-in-law, 545; lion and rose, 545; measures of ambiguity in, 541-557; slave market and Voltaire, 555; snail and elephant, 545; wife and mother-in-law, original and negative, 547.

Ratings, of preferences for musical excerpts, 171-185.
Reaction-time, apparatus for study of, 251.
Reading, *661 f.*
Recall, conceptual complexity and, 631-634.
Redundancy, patterns of, *472 ff.*
Retardates, mental, ratio scaling by, compared with trained and naïve normals, 520-540.
Reversible figures, ambiguity in, 541-557; *see* also: Puzzle pictures.
Reward, drive and, in instrumental learning, 377-383.

Scale, affective, in judgment of musical excerpts, 177-184; loudness, lambda, 59-65, ratio-estimates of, 59-65, sone, 59-65; pain, suprathreshold, 124-128; semantic differential, 345-354.
Scaling, *see* Psychophysics, scaling.
Schizophrenia, amines and, *659 f.*
Self, locus of, determined by finger tracings on head, explanation, 313 f.
Semantic differential, analysis, of concept-clusters by, 345-354, of educational concepts by, 348-351.
Sensation, auditory, detection of correlated with visual detection, 236-242; cold, painful sensation from, 124-128; pain, measurement of, 124-128; tactile, clues for magnitude of, 287-290; visual, detection of, correlated with auditory detection, 236-242; *see* also: Perception.
Sense-perception, a functional psychology of, *150-154.*
Senses, as perceptual system, *150-154.*
Sensory deprivation, *661.*
Sex, decision-making as a function of, 245-249.
Shakespeare, psychoanalytic study of, *485 f.*
Shock, apparatus to deliver, 446 f.
Size, estimates, in air vs. water, 282-286, underwater, 282-286.
Size-constancy, age and, 267 f., 294 ff.; distance and, 294 ff.; underwater, 284-286.
Size-distance hypothesis, underwater, 282-286; invariance hypothesis, 640 ff.; judgment, apparatus for study of, 251 f.
Size-matching, age and, 263-268; binocular vs. monocular cues in, 263-268; distance as function of, 263-268; monocular vs. binocular cues in, 263-268.
Sleep, arousal and, *154 ff.;* dreams and, *154 ff.;* as a drive, *154 f.;* eye-movements in, *155 f.;* psychology of, *154 ff.*
Social psychology, *324 ff.*
Solutions, logical, 461 f.
Spatial orientation, *476 ff.*
Spence, K. W., 314-318; portrait, facing 171.
Stabilized images, heterochromatic, classroom demonstration of, 634-637.
Story-writing, as measure of creativity, 495-502, 513.
Strategy, games, tic-tac-toe vs. *JAM,* 137-140; probability learning and, 276-281, *660 f.*
Stroop test, alternation and interference in, 416-420; pronounceability and interference in, 416-420.
Summation, binaural, of tones as function of bandwidth, 384-390.
Syntax, in judgment of grammaticalness of sentences, 197-204.

Testing, of personnel, *326.*
Therapy, behavioral, *470 ff.*
Thought, associational structure in, *646-649.*
Time-error, in comparative judgment of weights, interpolated stimuli and, 115-119.
Torque, sensitivity to, knob radius and load in, 558-571, Weber's law and, 567-571.

Unhappiness, personality characteristics associated with, *148.*

Vision, color-naming, 19-27; defects, deuteronopia and color-naming, 20 ff.
Visual feedback, accuracy of target positioning and, 405-410.
Visual figures, changing, children's reproductions of, 213-220.
Visual search, irrelevant symbols and, 1-13; speed of, 1-13.

Word-order, inversions of, and judgment of grammaticalness, 197-204.
Word-usage, as measure of creativity, 509-513; mental competence scores and, 510-519.